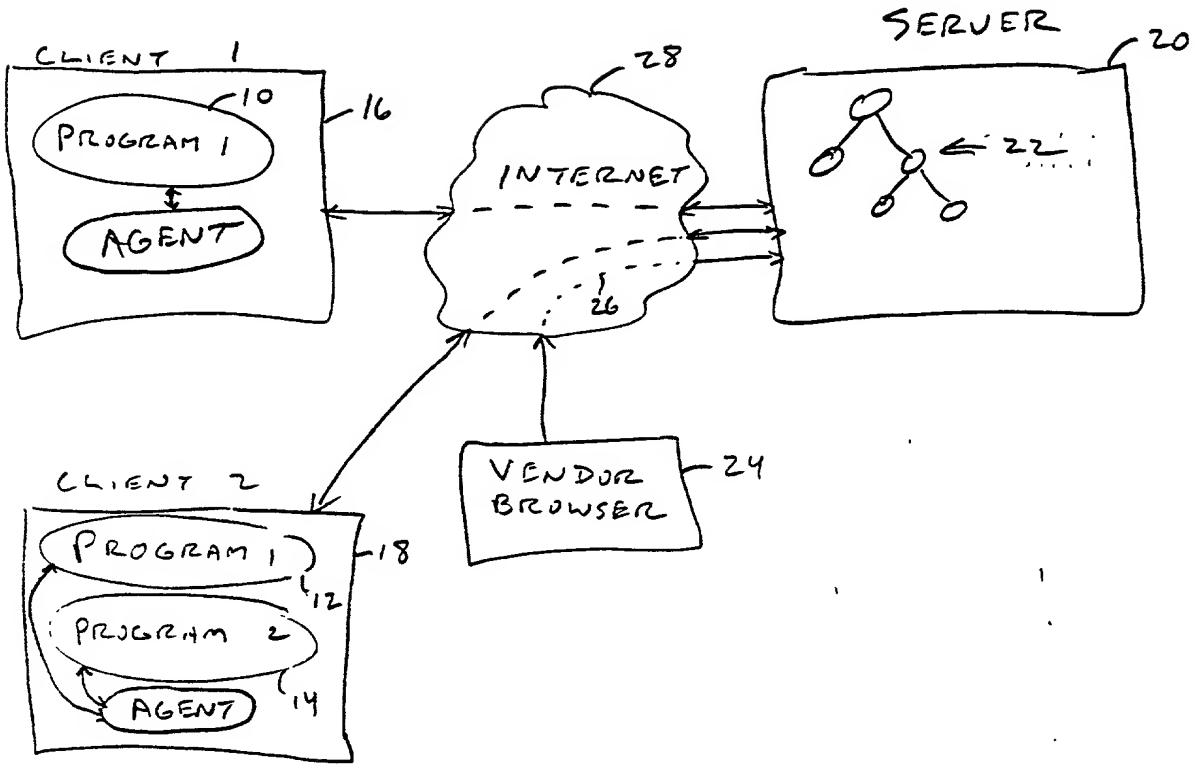


FIG. 1

1000259.1101

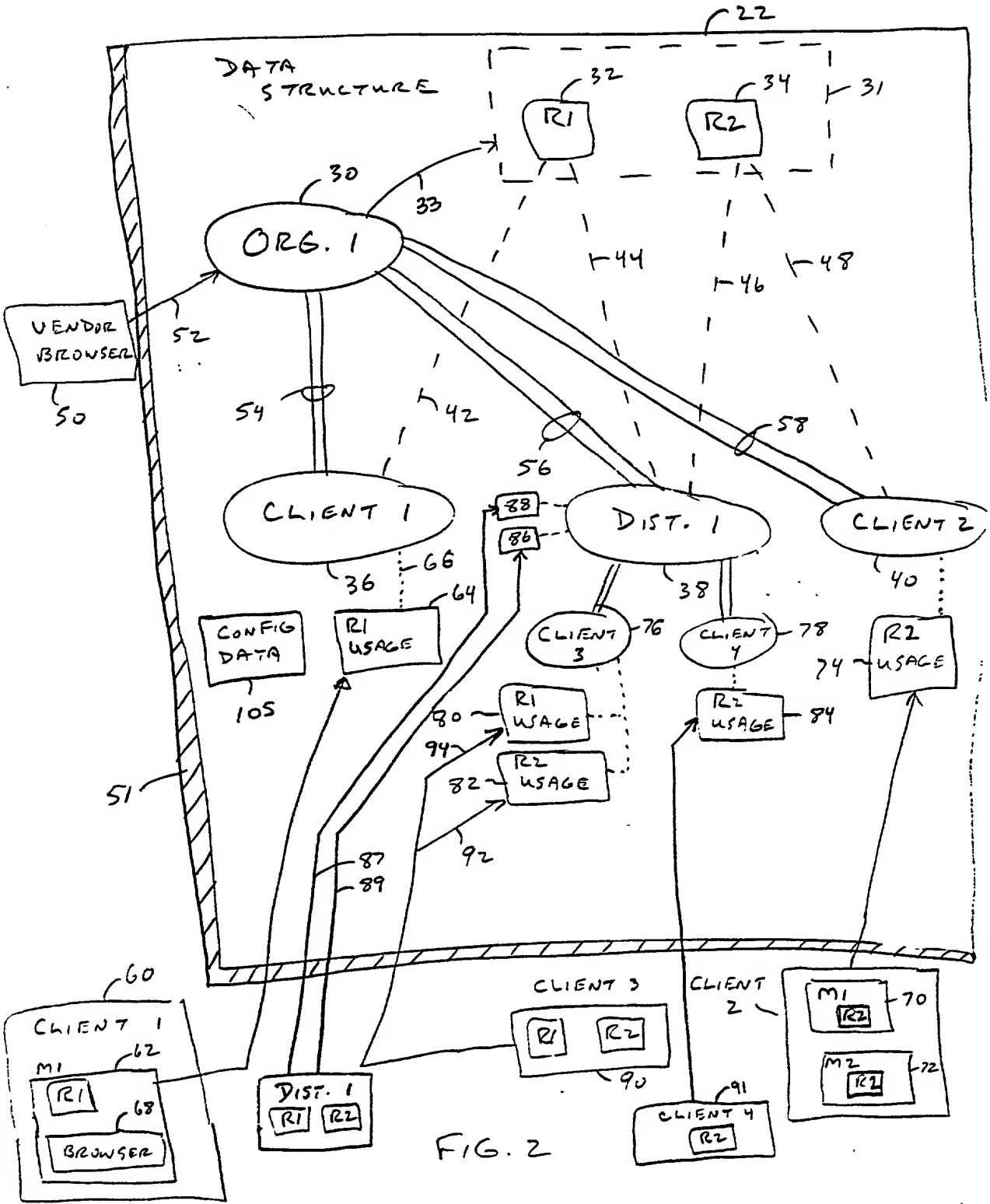

22
DATA STRUCTURE
32
R1
34
R2
31
30
33
ORG. 1
44
46
48
VENDOR BROWSER
52
50
54
42
58
56
CLIENT 1
88
86
DIST. 1
CLIENT 2
66
36
38
40
64
CONFIG DATA
R1 USAGE
CLIENT 3
76
CLIENT 4
78
R2 USAGE
74
105
80
R1 USAGE
84
94
82
R2 USAGE
51
87
89
92
60
CLIENT 1
M1
62
R1
68
BROWSER
DIST. 1
R1
R2
CLIENT 3
R1
R2
90
CLIENT 4
91
R2
CLIENT 2
M1
R2
70
M2
R2
72

FIG. 2

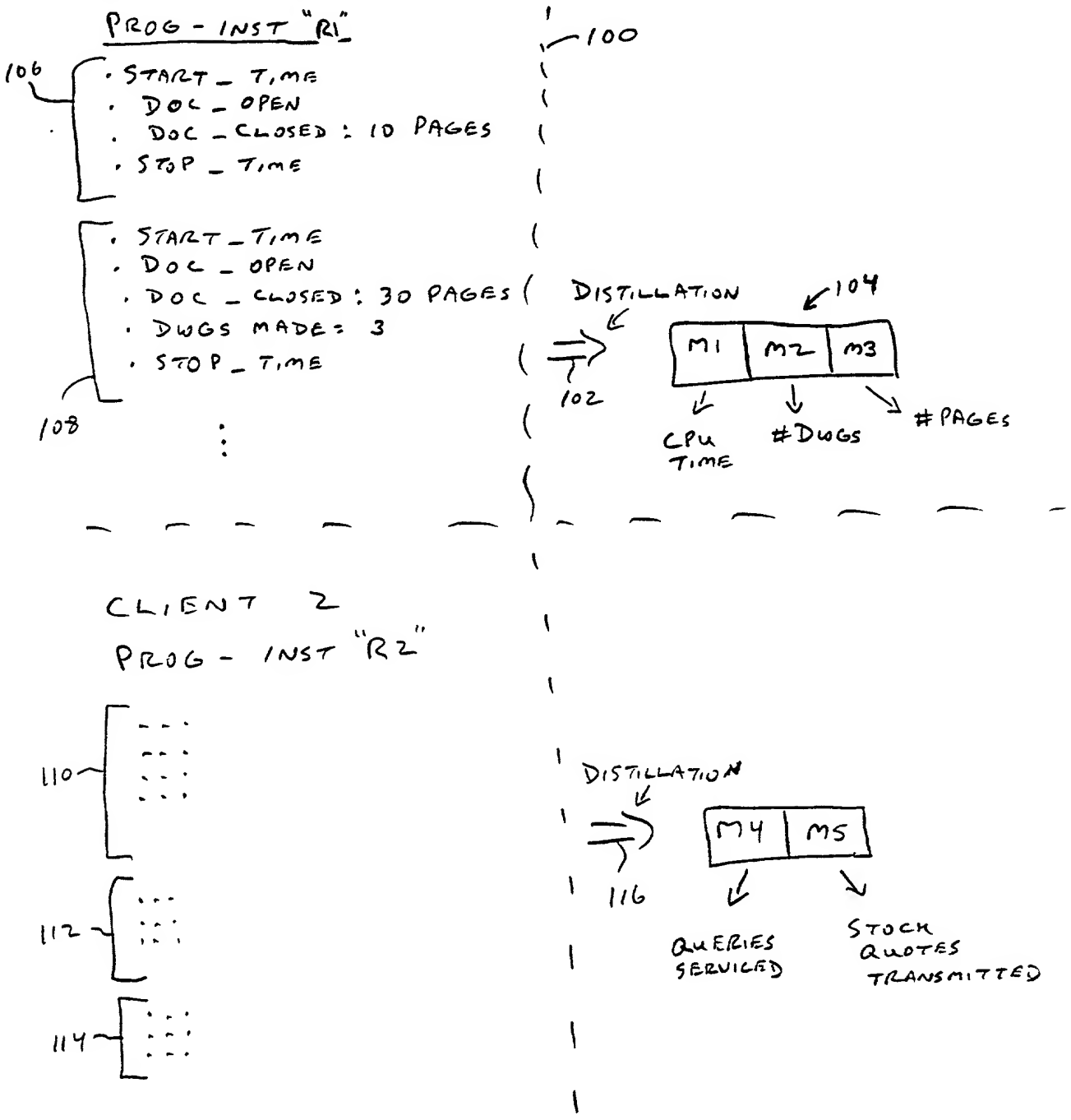


FIG. 3

4008957 "4008957

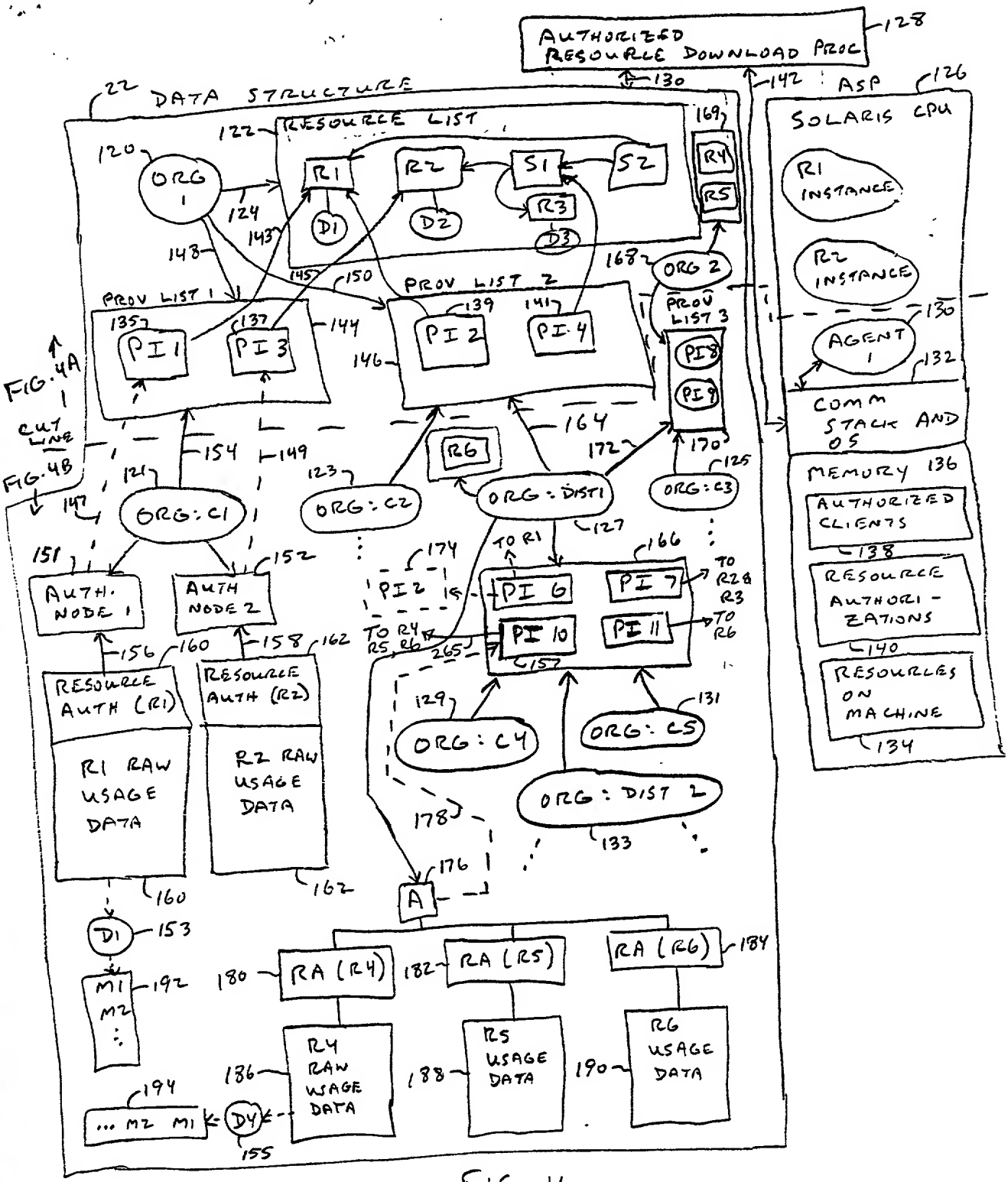

AUTHORIZED RESOURCE DOWNLOAD PROC
128
130
142
ASP
126
SOLARIS CPU
R1 INSTANCE
R2 INSTANCE
AGENT 1
132
COMM STACK AND OS
MEMORY 136
AUTHORIZED CLIENTS
138
RESOURCE AUTHORIZATIONS
140
RESOURCES ON MACHINE
134
22
DATA STRUCTURE
RESOURCE LIST
122
120
ORG 1
124
143
148
145
150
R1
R2
S1
S2
R3
R4
R5
169
D1
D2
D3
PROV LIST 1
135
137
144
PI 1
PI 3
PROV LIST 2
139
141
PI 2
PI 4
146
168
ORG 2
PROV LIST 3
PI 8
PI 9
170
172
164
R6
125
ORG : C3
ORG : DIST 1
127
123
ORG : C2
121
ORG : C1
147
154
149
FIG. 4A
CUT LINE
FIG. 4B
151
152
AUTH. NODE 1
AUTH NODE 2
156
160
158
162
RESOURCE AUTH (R1)
RESOURCE AUTH (R2)
R1 RAW USAGE DATA
R2 RAW USAGE DATA
160
162
D1
153
M1
M2
192
194
... M2 M1
D4
155
174
PI 2
TO R1
166
PI 6
PI 7
TO R2 & R3
PI 10
PI 11
TO R6
TO R4 R5, R6
265
157
129
131
ORG : C4
ORG : C5
ORG : DIST 2
133
178
176
A
180
RA (R4)
182
RA (R5)
RA (R6)
184
R4 RAW USAGE DATA
186
R5 USAGE DATA
188
R6 USAGE DATA
190

FIG. 4

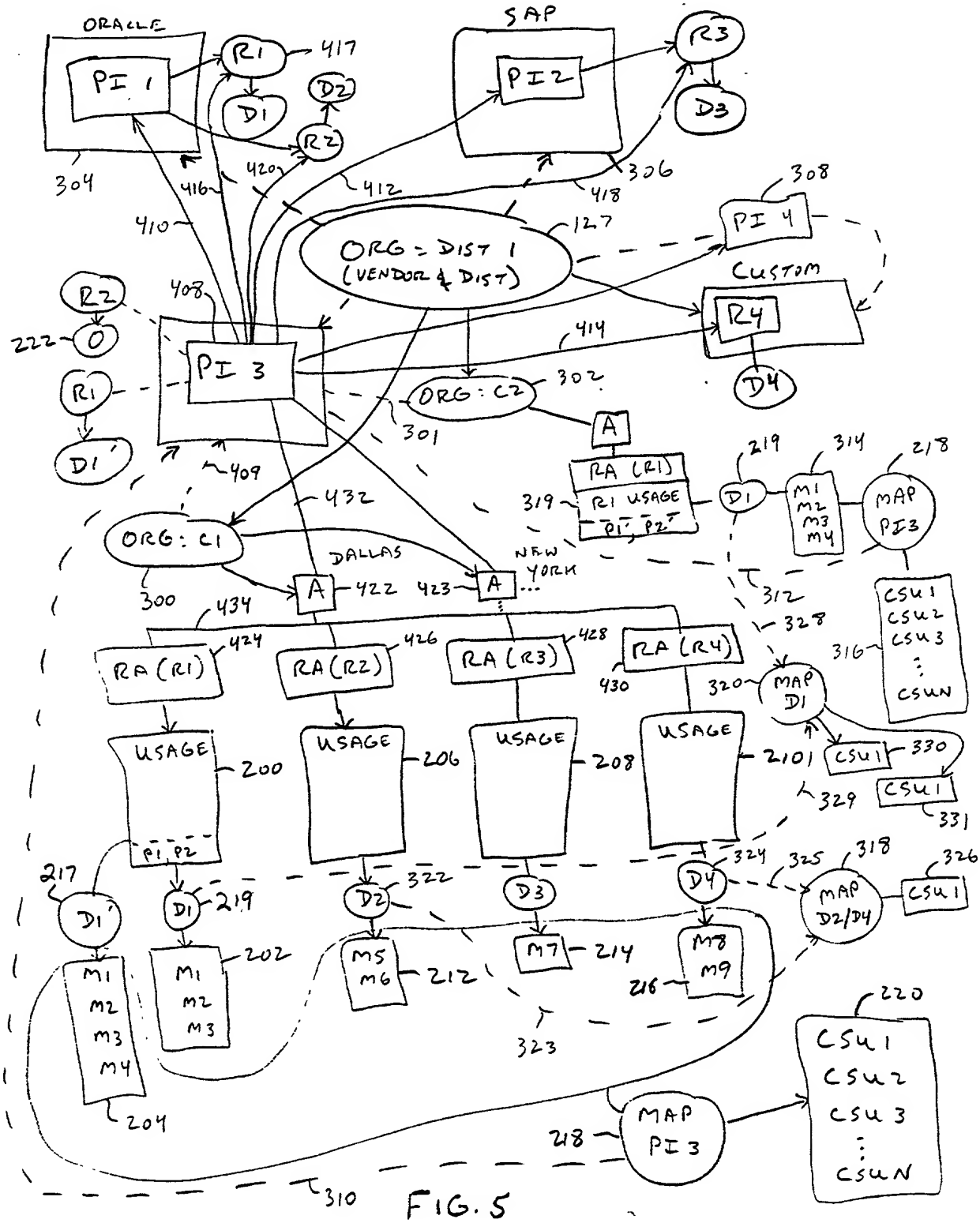

ORACLE
PI 1
R1
D1
D2
R2
417
304
416
420
412
410
SAP
PI 2
R3
D3
306
418
308
PI 4
127
ORG = DIST 1
(VENDOR & DIST)
CUSTOM
R4
D4
R2
408
222
O
PI 3
414
R1
D1
ORG : C2
302
301
409
A
RA (R1)
R1 USAGE
P1, P2
319
219
314
M1
M2
M3
M4
218
MAP
PI3
432
ORG : C1
DALLAS
NEW YORK
300
A
422
423
A
312
328
CSU1
CSU2
CSU3
CSUN
316
434
RA (R1)
424
RA (R2)
426
RA (R3)
428
RA (R4)
430
320
MAP
D1
USAGE
200
USAGE
206
USAGE
208
USAGE
210
CSU1
330
CSU1
331
329
217
D1
D1
219
D2
322
D3
D4
324
325
318
MAP
D2/D4
CSU1
326
M1
M2
M3
M4
204
M1
M2
M3
202
M5
M6
212
M7
214
M8
M9
216
323
220
CSU1
CSU2
CSU3
CSUN
MAP
PI3
218
310

FIG. 5

OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING

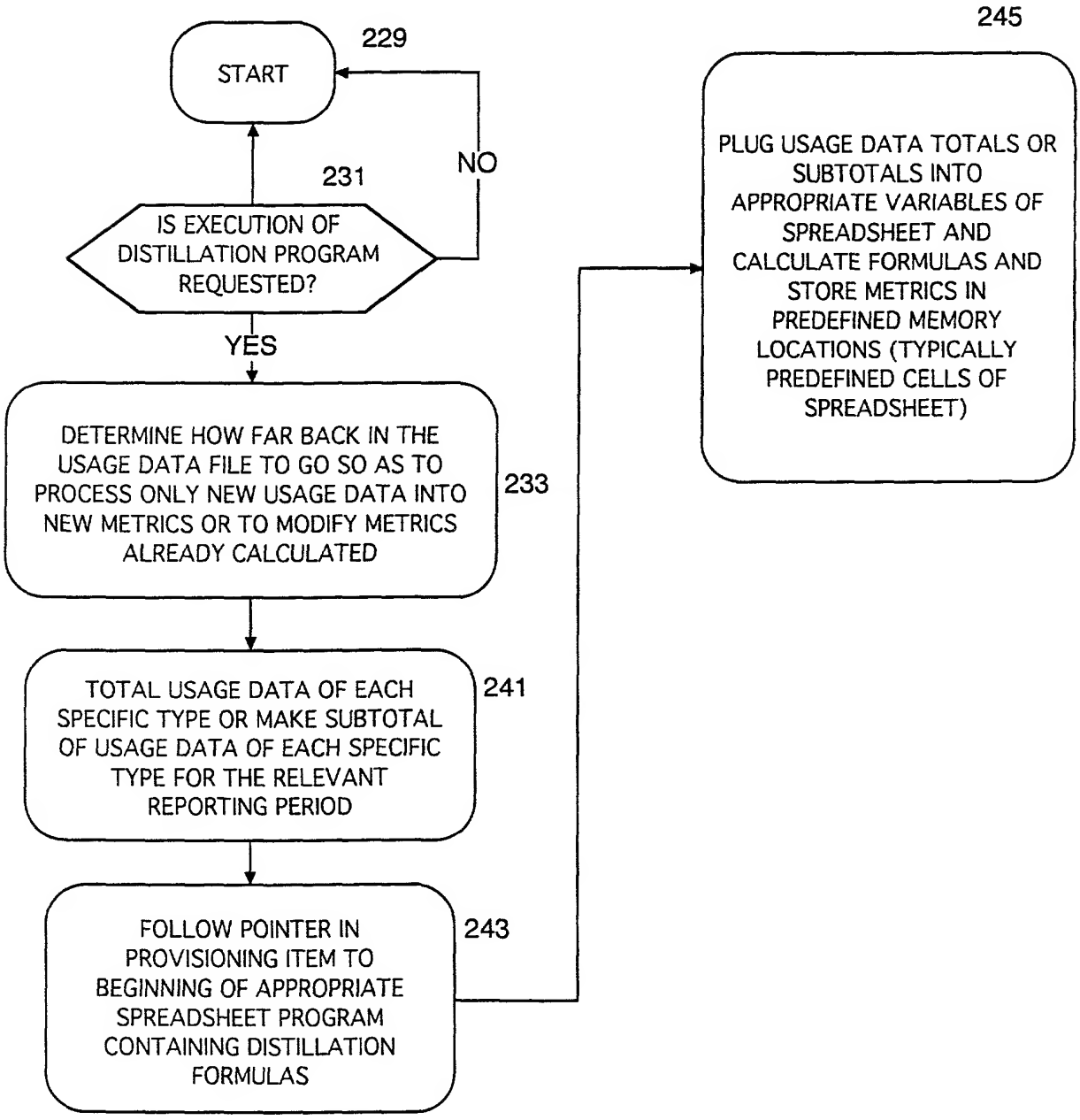


FIG. 6A

OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING USING A PROGRAMMABLE DISTILLATION PGM

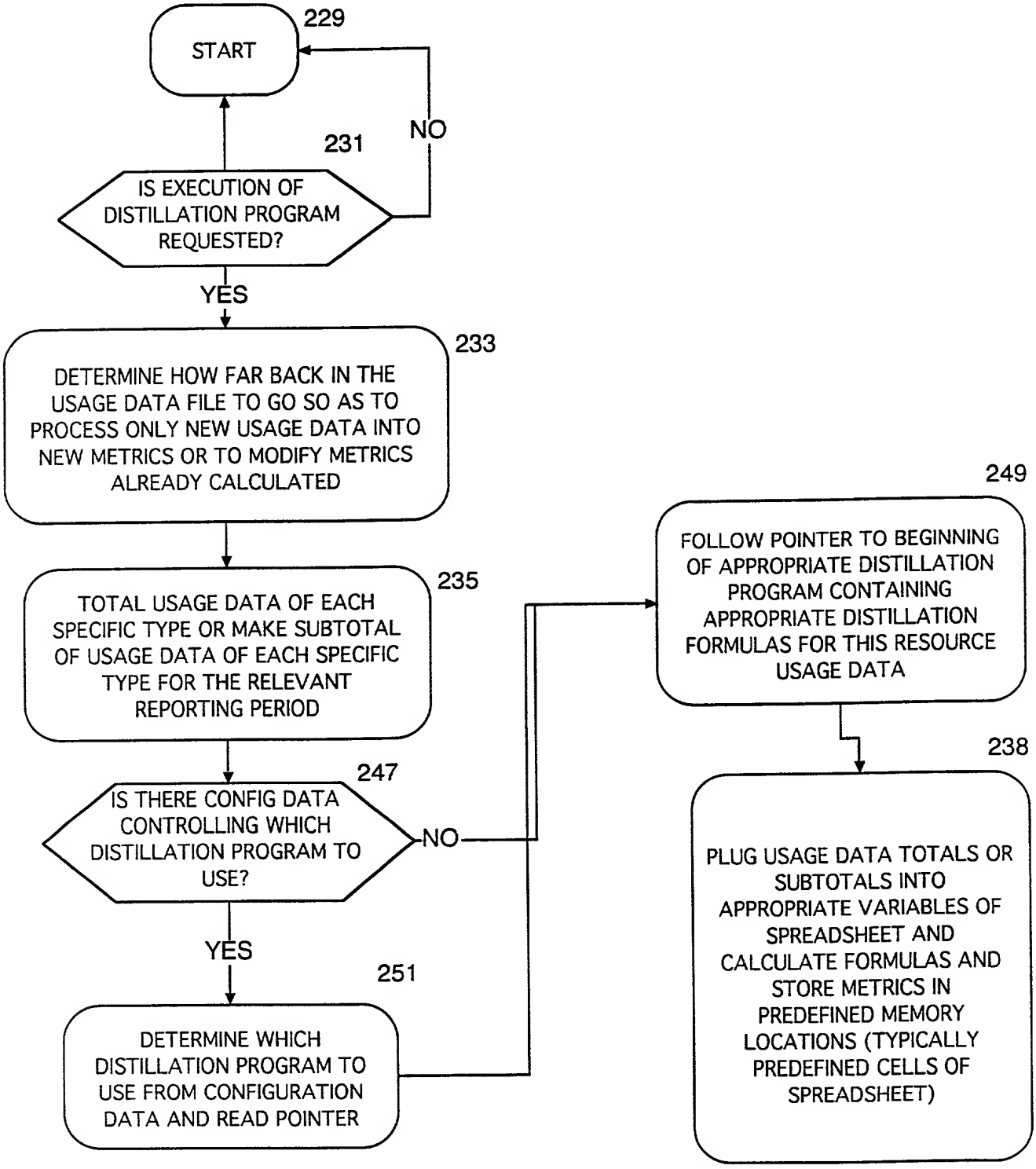


FIG. 6B

PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS OF THE CUSTOMER'S DESIGN

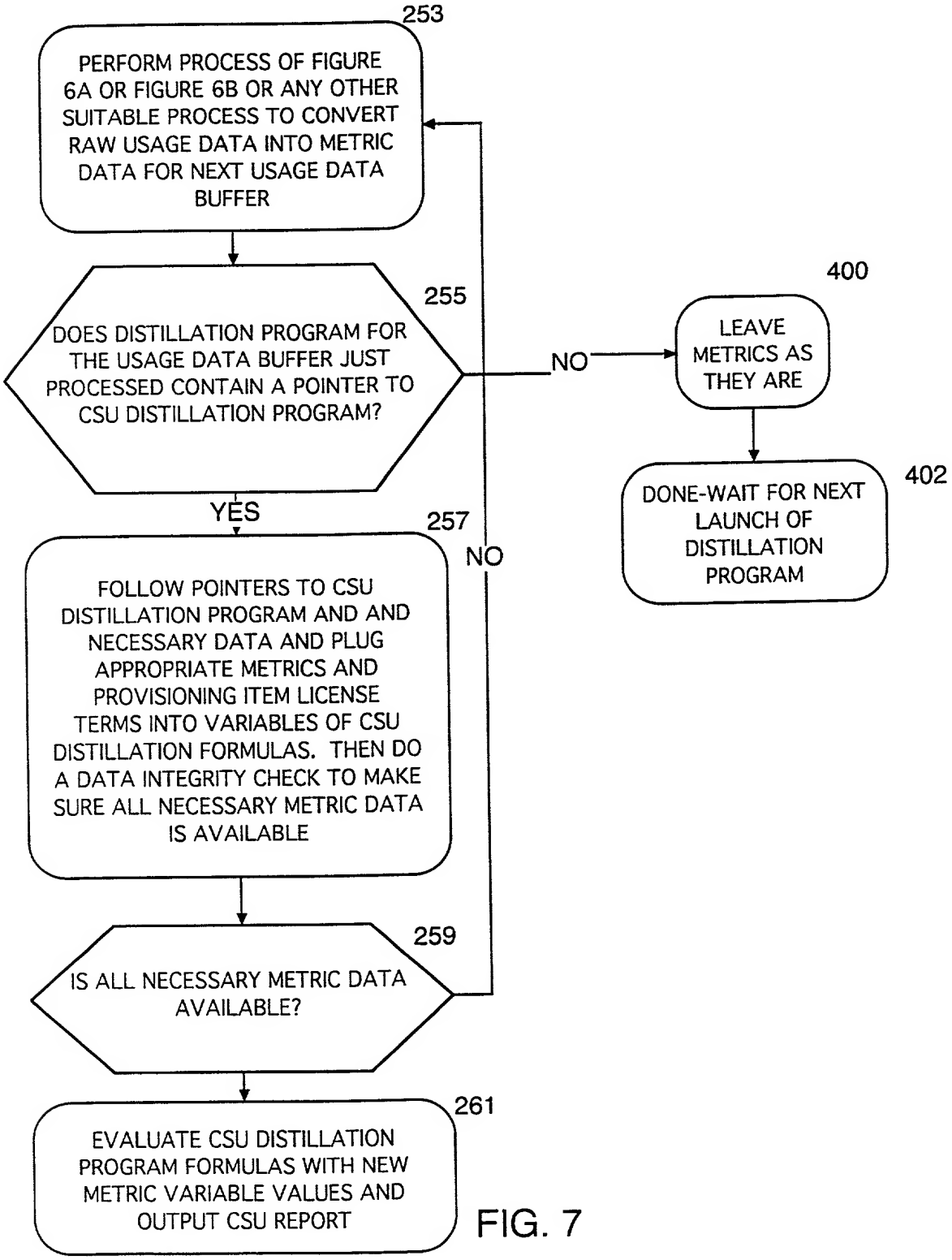


FIG. 7

Patent Application Publication

OVERALL PROCESS TO COLLECT RAW USAGE DATA IN A CENTRAL SERVER AND USE IT TO PREPARE METRICS AND PREPARE INVOICES OR REPORTS THEREFROM

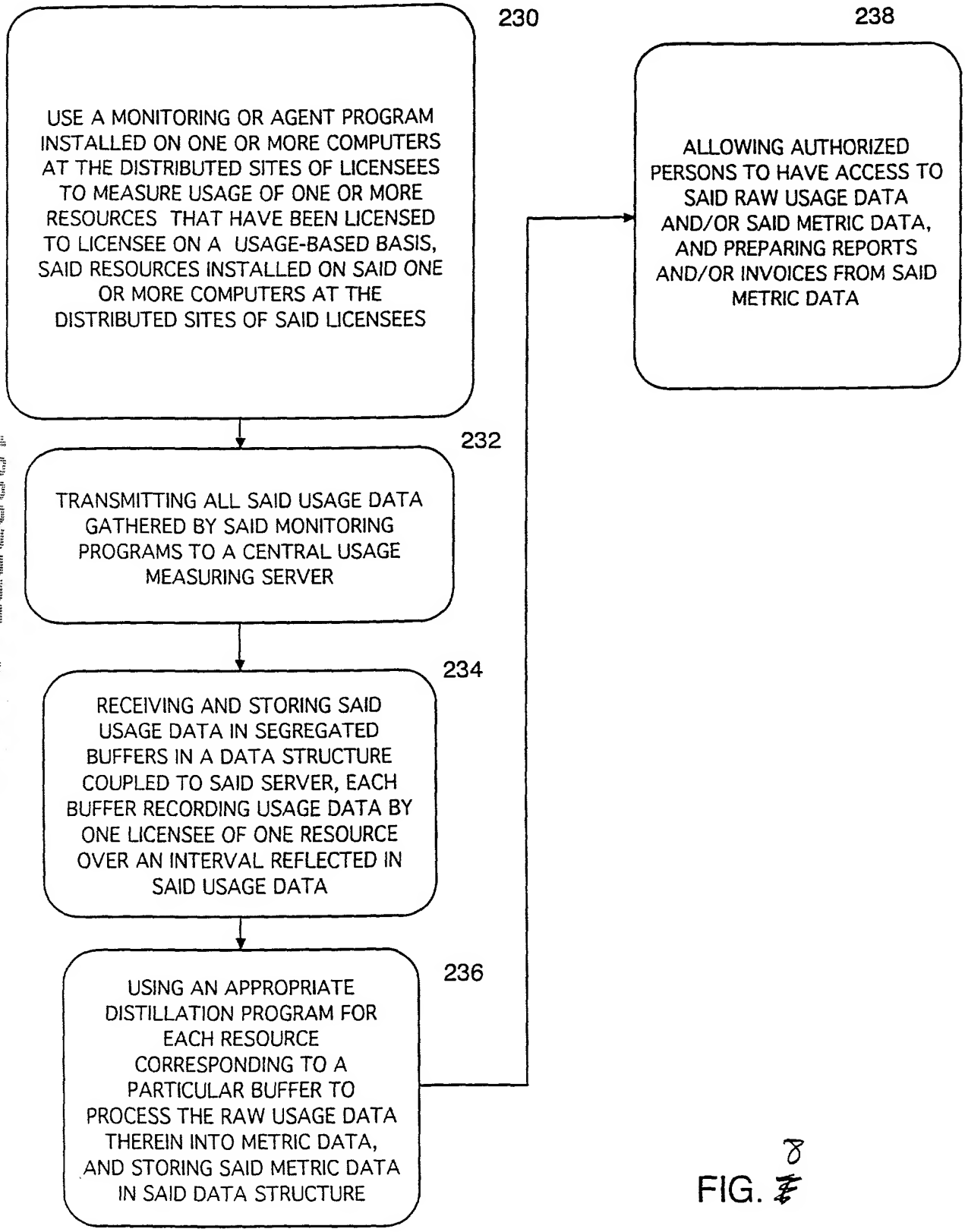


FIG. 8

PROCESS TO BUILD USAGE MEASURING SERVER DATA STRUCTURE AND ALLOW RESTRICTED ACCESS THERETO

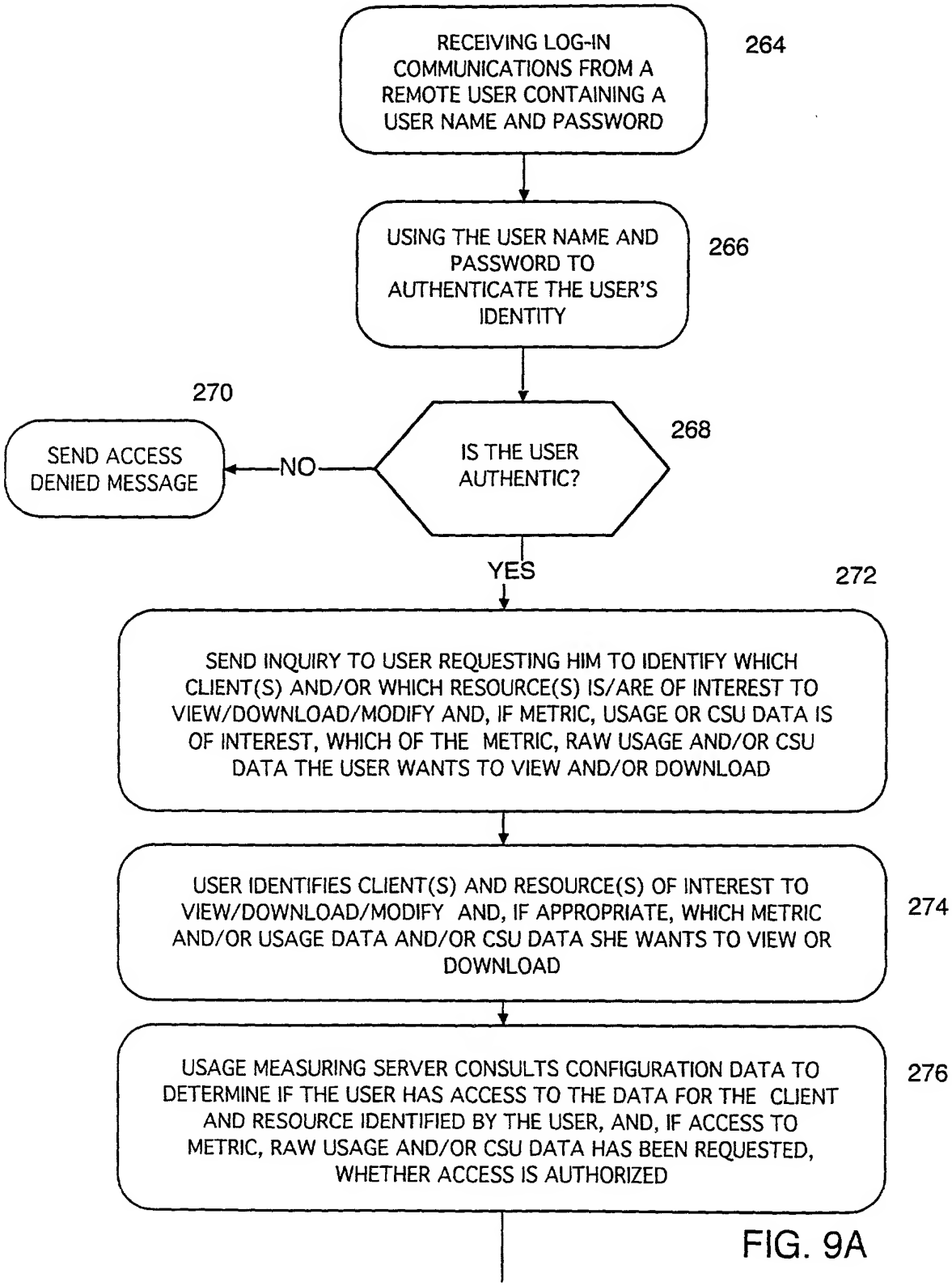


FIG. 9A

Attorney Docket No. 10020567-1

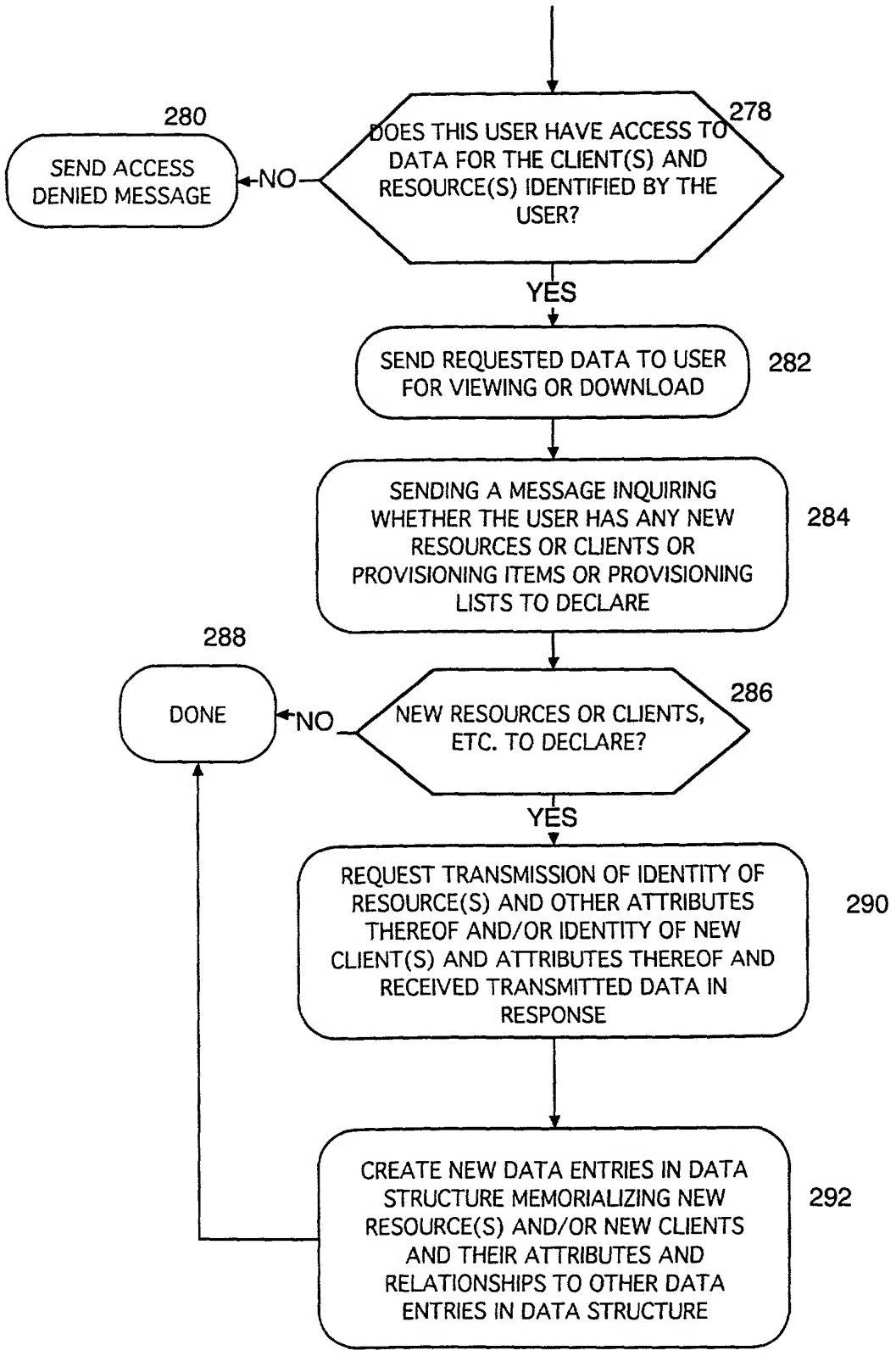


FIG. 9B

Exhibit 1004, p. 17 of 25

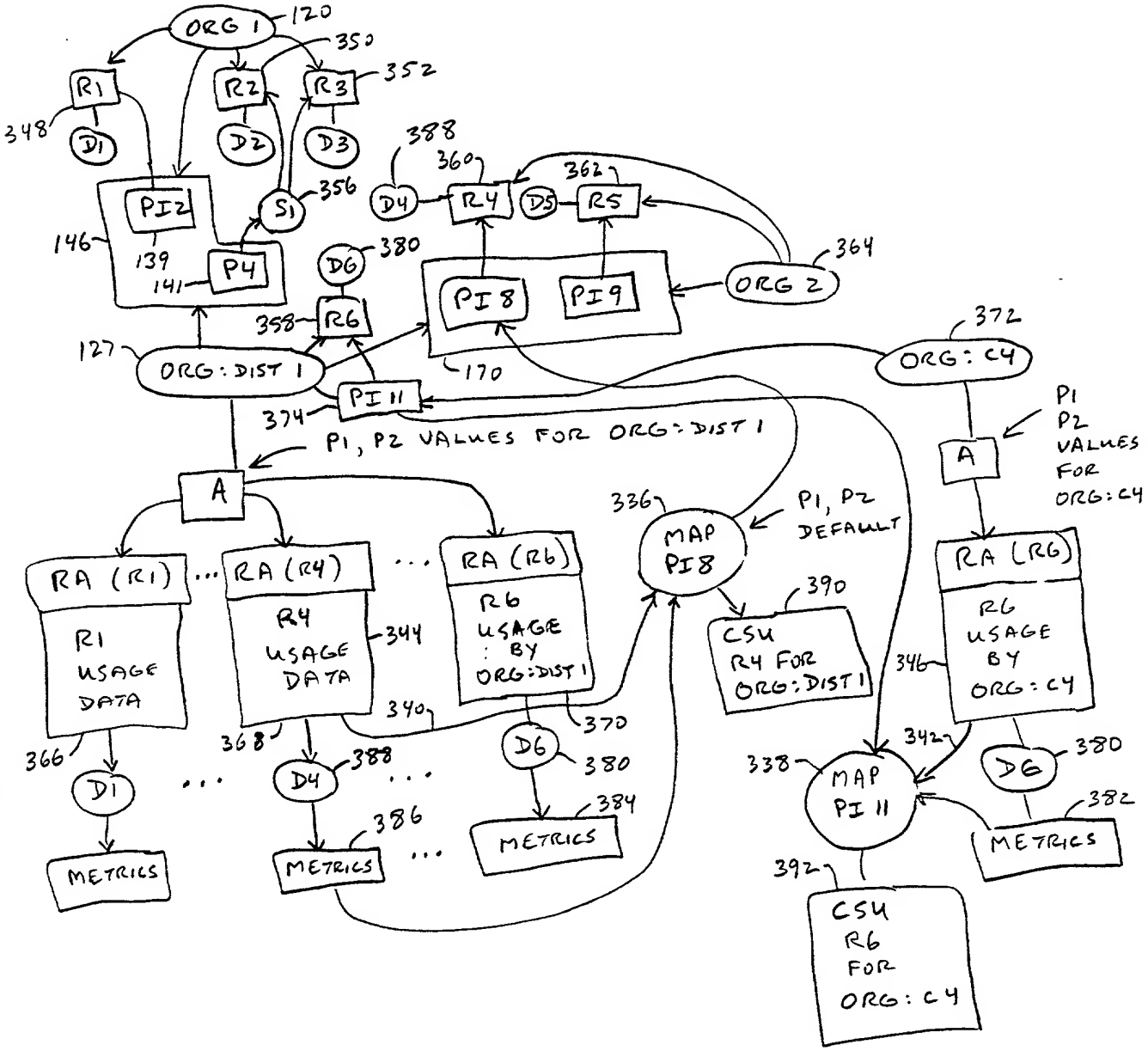

ORG 1
120
350
352
R1
R2
R3
348
D1
D2
D3
388
360
362
D4
R4
D5
R5
PI2
S1
356
146
139
141
P4
DG
380
364
PI 8
PI 9
ORG 2
358
R6
127
ORG : DIST 1
372
ORG : C4
PI 11
374
170
P1, P2 VALUES FOR ORG : DIST 1
P1
P2
VALUES
FOR
ORG : C4
A
A
336
MAP
PI 8
P1, P2
DEFAULT
RA (R1)
RA (R4)
RA (R6)
RA (RG)
R1
USAGE
DATA
R4
USAGE
DATA
344
R6
USAGE
BY
ORG : DIST 1
390
CSU
R4 FOR
ORG : DIST 1
346
RG
USAGE
BY
ORG : C4
340
370
366
368
342
338
D1
D4
388
D6
380
D6
380
MAP
PI 11
METRICS
386
METRICS
384
METRICS
382
METRICS
392
CSU
R6
FOR
ORG : C4

FIG. 10

ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO PROVISIONING ITEM DETAILING LICENSE TERMS

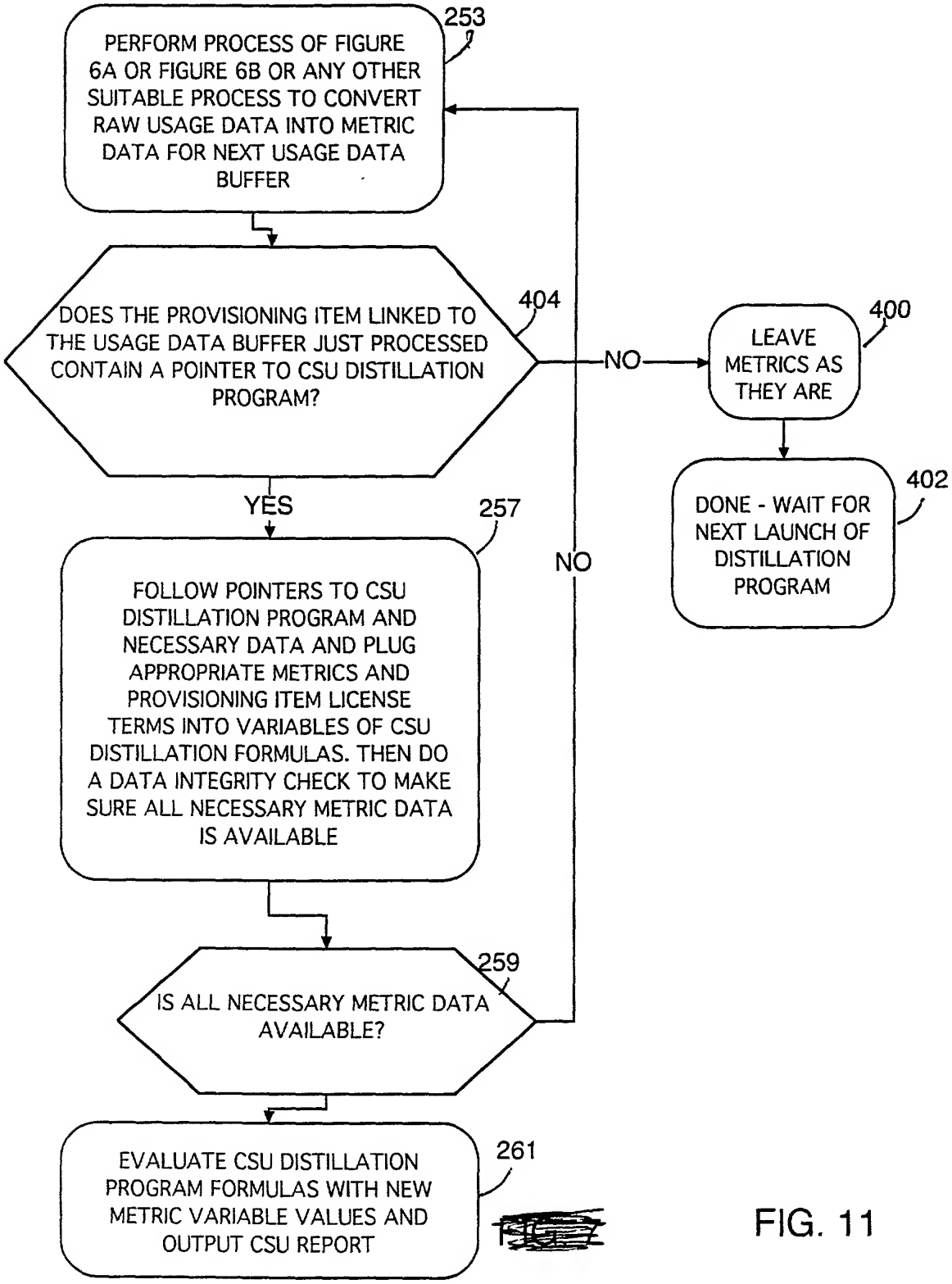


FIG. 11

Patent - 7,080,257

ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO THE USAGE DATA BUFFER OF EACH CLIENT THAT WANTS CSU BASED REPORTS

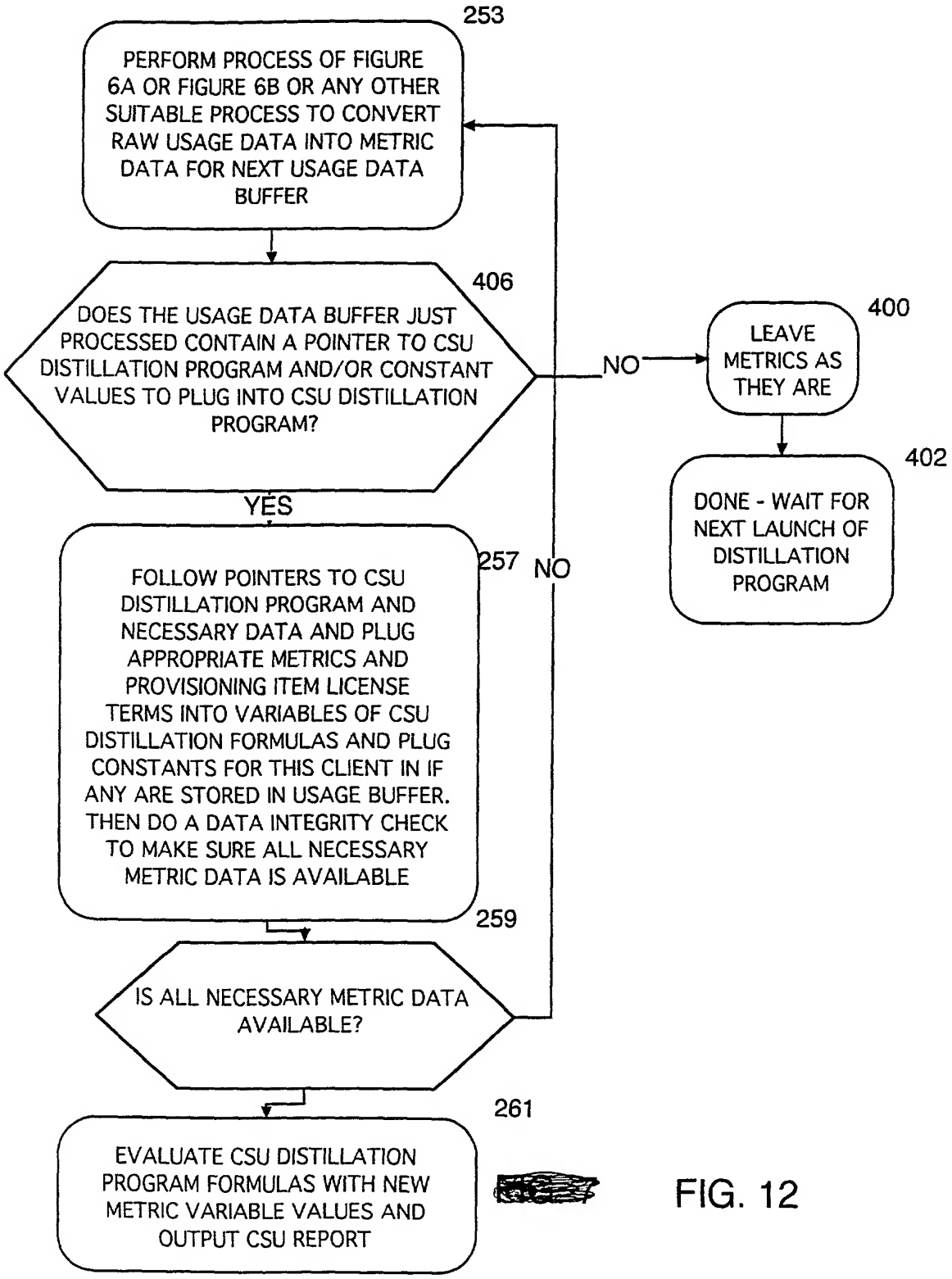


FIG. 12

PROCESS TO CREATE DATA STRUCTURE TO SUPPORT SUITE LICENSING AND TO USE THE DATA STRUCTURE TO IMPLEMENT SUITE LICENSING

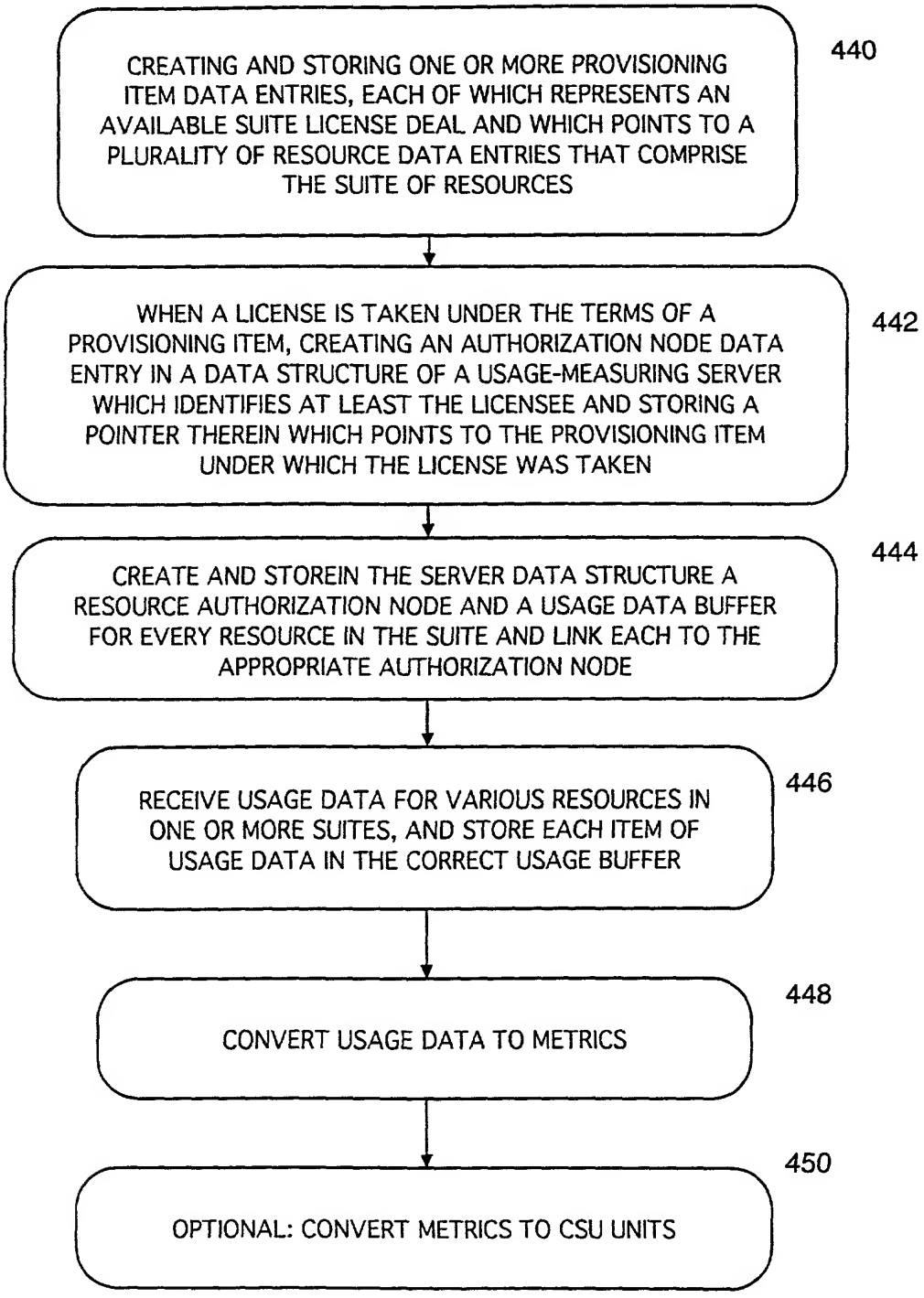


FIG. 13

Patent No. 7,051,098 B2

ONE STOP SHOPPING PROCESS TO DETERMINE ALL AVAILABLE LICENSE DEALS ON A PARTICULAR RESOURCE

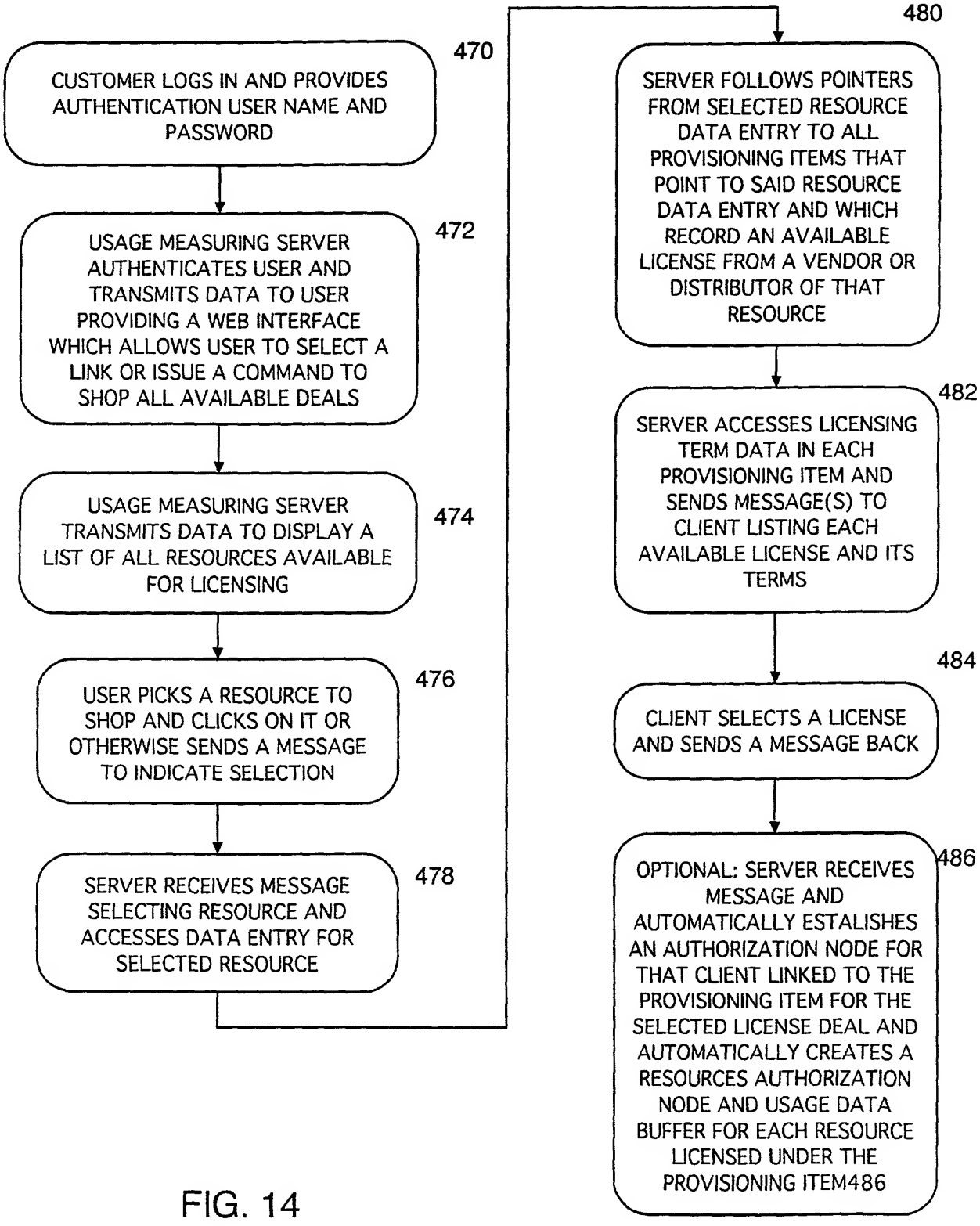


FIG. 14

EXHIBIT 1004

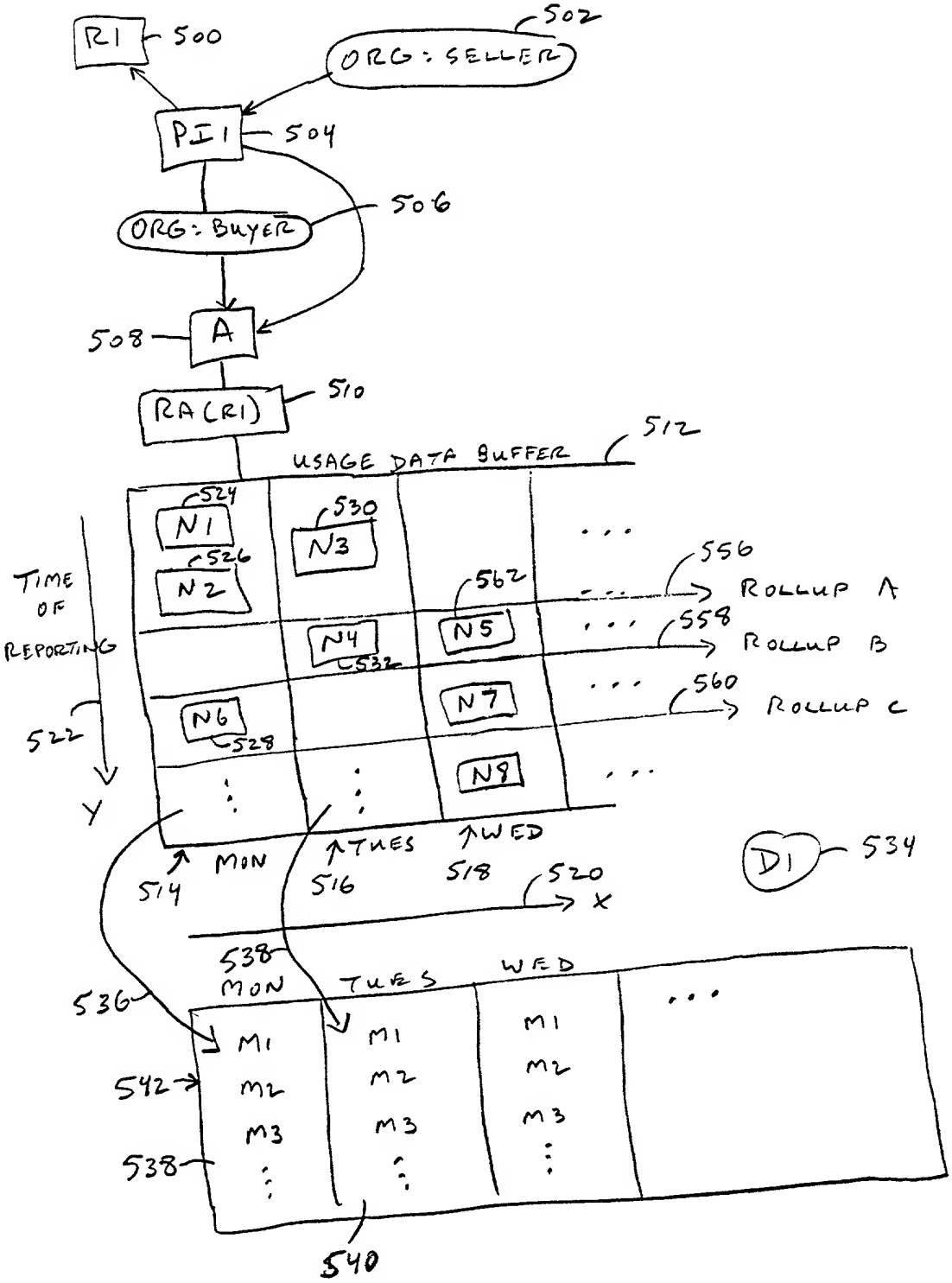

R1
500
ORG: SELLER
502
PI1
504
ORG: BUYER
506
508
A
RA(R1)
510
USAGE DATA BUFFER
512
524
N1
526
N2
530
N3
556
ROLLUP A
562
N5
558
ROLLUP B
N4
532
N6
528
N7
560
ROLLUP C
N8
TIME OF REPORTING
522
Y
MON
TUES
WED
514
516
518
520
X
D1
534
538
MON
TUES
WED
536
M1
M2
M3
542
538
540

FIG. 15

PROCESS TO COLLECT USAGE DATA, PARTITION IT INTO TIME SEGMENTS AND GENERATE METRICS THEREFROM

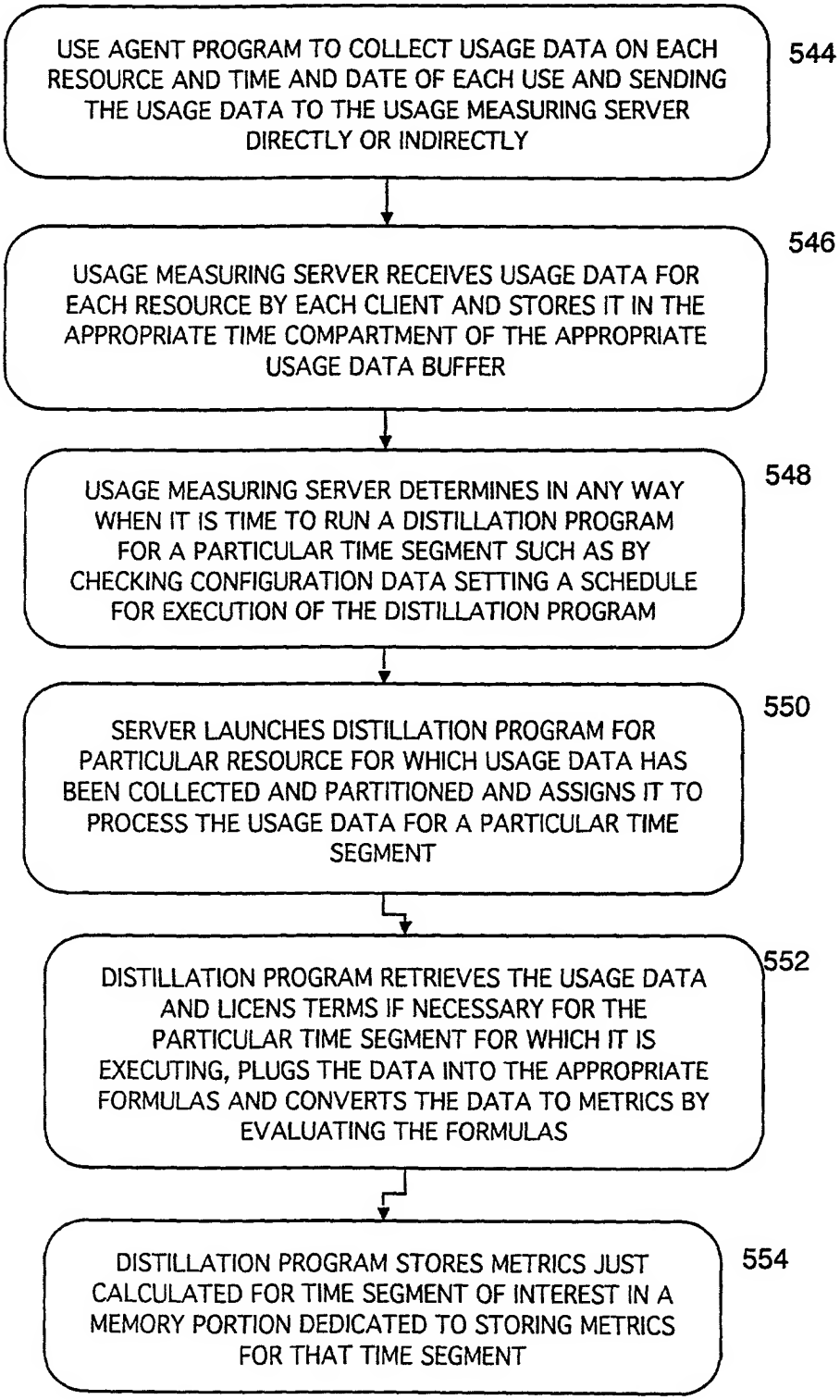


FIG. 16

1000259P - 1000101

ROLLUP A ID 39

	MON	TUES	WED	...
M1 = CPU	10	1	0	...
M2 = DOCS	500	50	0	...
M3 = # PGS	759	71	0	...
	⋮	⋮	⋮	

FIG. 17

ALTERNATIVE ROLLUP B ID 40

MON	TUES	WED
0	3	2
0	70	40
0	139	96

FIG. 18

PREFERRED ROLLUP B ID 50

MON	TUES	WED	
10	4	2	
500	120	40	
759	210	96	

FIG. 19

ALTERNATIVE ROLLUP B ID 40

MON	TUES	WED
0	4	2
0	120	40
0	210	96

FIG. 20

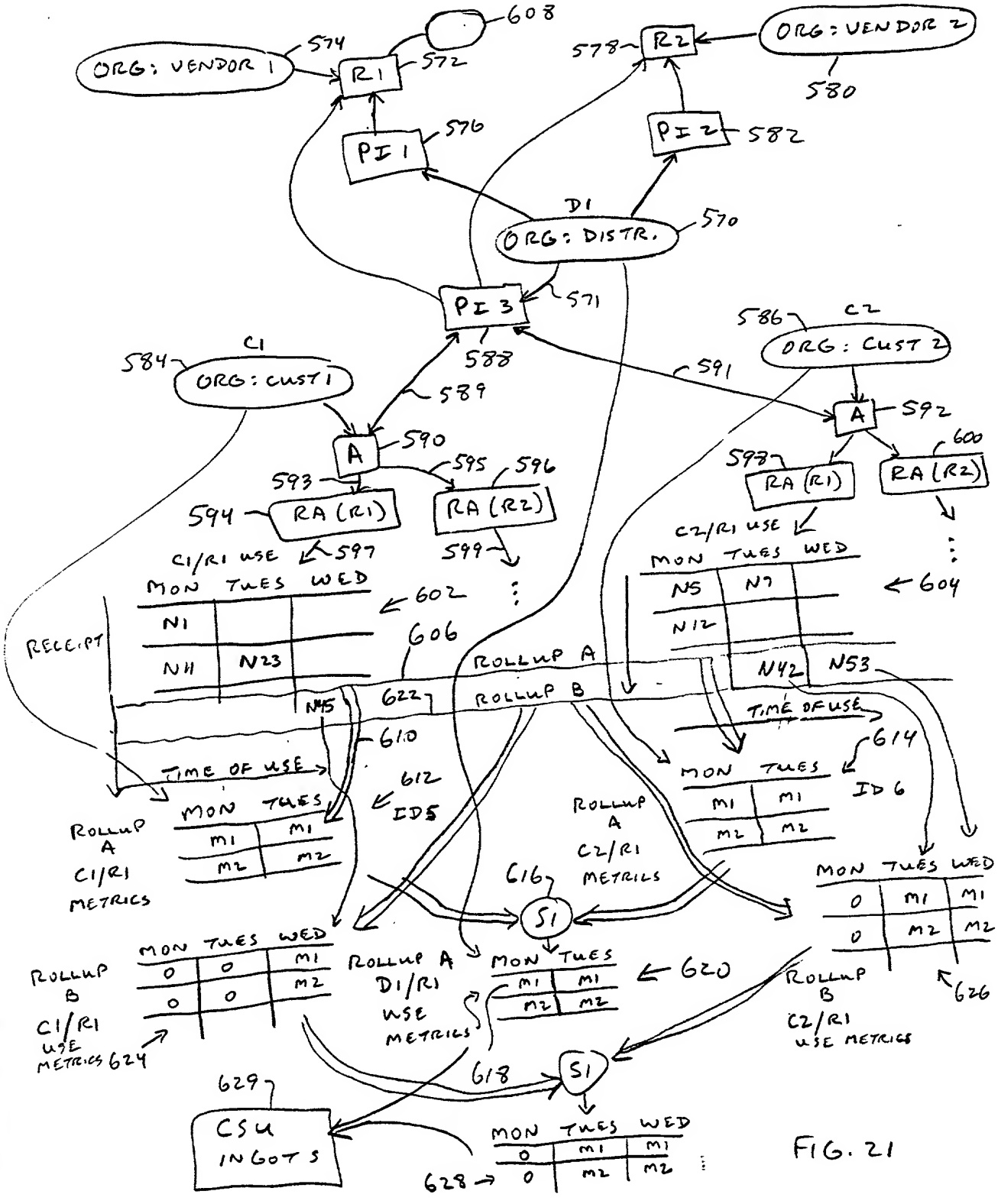

ORG: VENDOR 1
574
608
R1
572
578
R2
ORG: VENDOR 2
580
PI 1
576
PI 2
582
D1
ORG: DISTR.
570
PI 3
571
586
C2
ORG: CUST 2
591
584
C1
ORG: CUST 1
588
589
A
590
A
592
593
595
596
598
600
RA (R1)
RA (R2)
RA (R1)
RA (R2)
594
597
599
C1/R1 USE
MON TUES WED
N1
N11
N23
602
C2/R1 USE
MON TUES WED
N5
N7
N12
604
RECEIPT
606
ROLLUP A
ROLLUP B
N42
N53
N45
622
610
TIME OF USE
TIME OF USE
614
MON TUES
M1 M1
M2 M2
ID 6
612
ID5
ROLLUP A C1/R1 METRICS
MON TUES
M1 M1
M2 M2
ROLLUP A C2/R1 METRICS
616
S1
MON TUES WED
0 M1 M1
0 M2 M2
626
ROLLUP B C2/R1 USE METRICS
MON TUES WED
0 0 M1
0 0 M2
ROLLUP B C1/R1 USE METRICS
624
ROLLUP A D1/R1 USE METRICS
MON TUES
M1 M1
M2 M2
620
618
S1
629
CSU INGOTS
MON TUES WED
0 M1 M1
0 M2 M2
628

FIG. 21

PROCESS FOR ONE PROTOCOL ACCESS TO USAGE/METRIC/CSU DATA FOR ALL LICENSEES OF A LICENSOR FROM A USAGE MEASURING SERVER

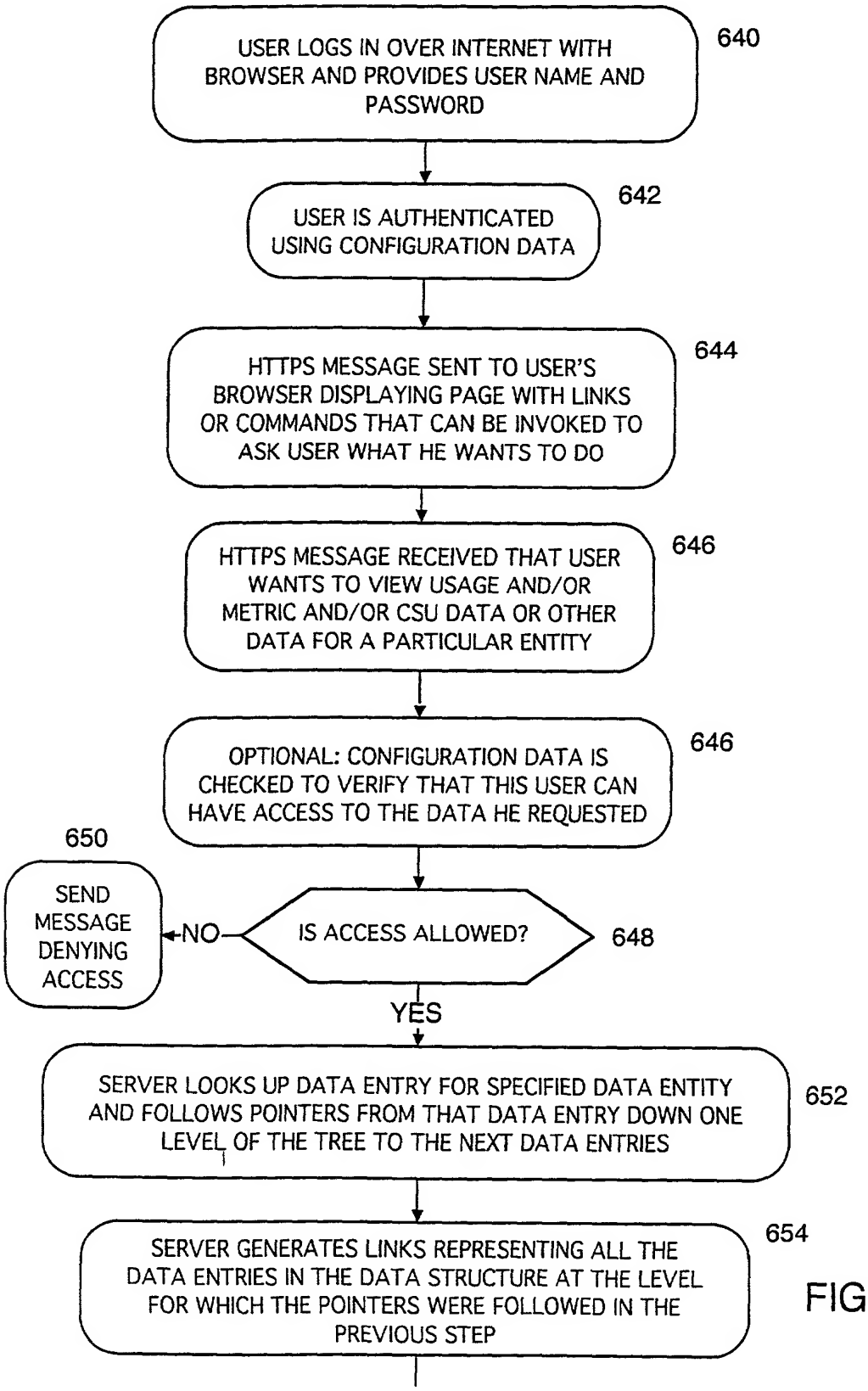


FIG. 22A

10002557 - 4101

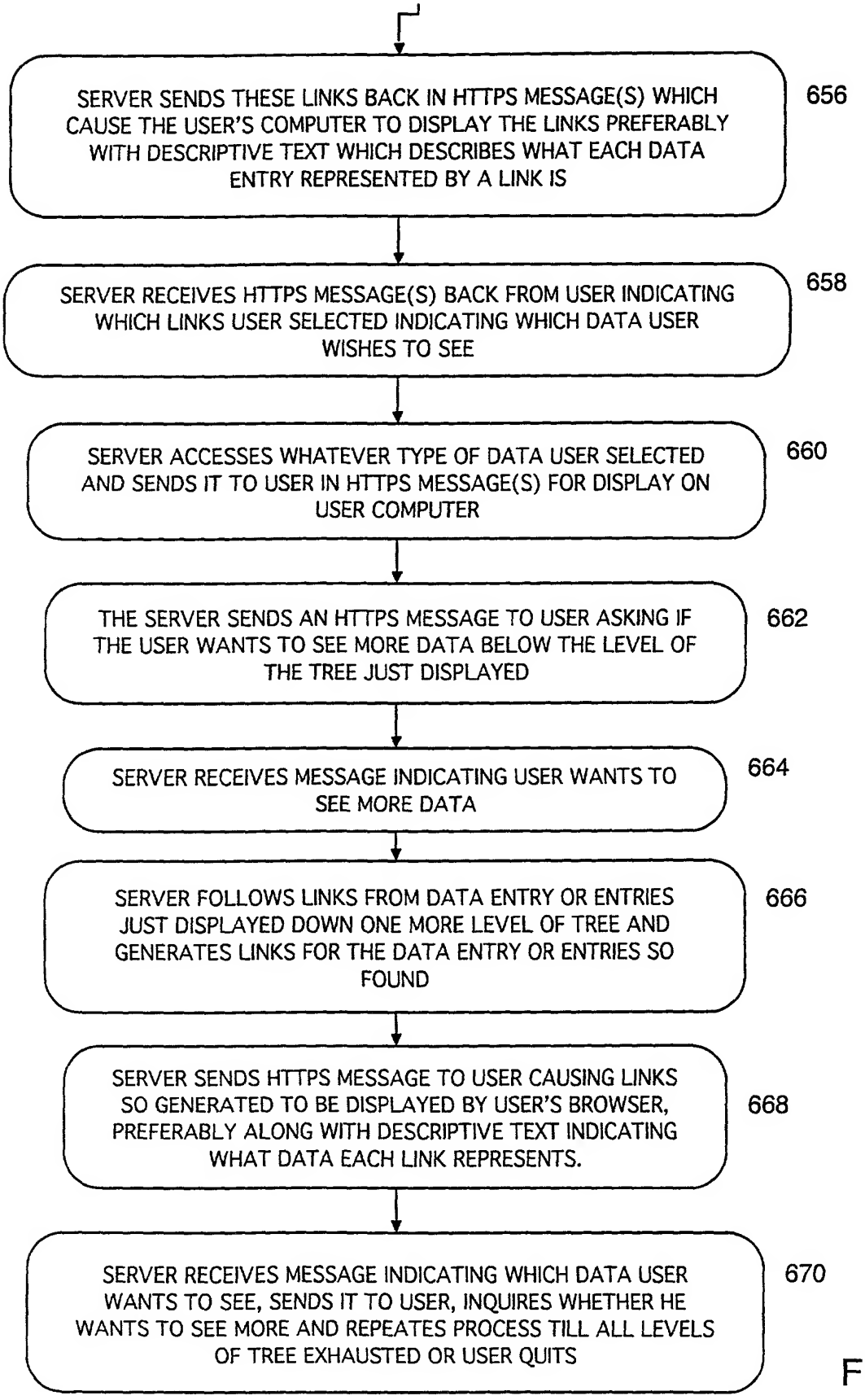
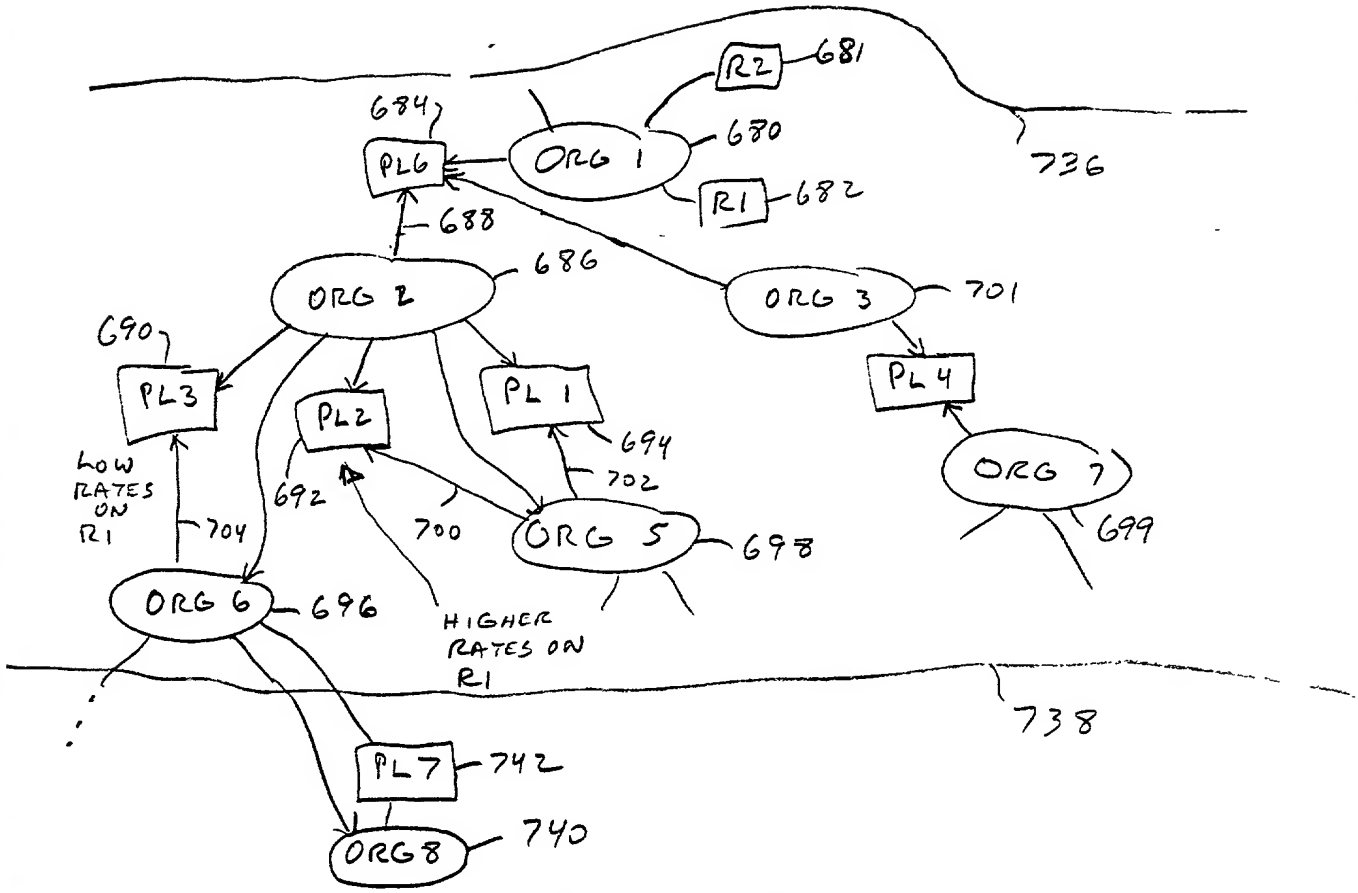


FIG. 22B

10025257 - 1010101



SECURITY BARRIERS

FIG. 23

A PROCESS TO IMPLEMENT SECURITY BARRIERS TO PREVENT USERS FROM VIEWING DATA IN A USAGE MEASURING SERVER DATA STRUCTURE THAT THE USER IS NOT AUTHORIZED TO VIEW

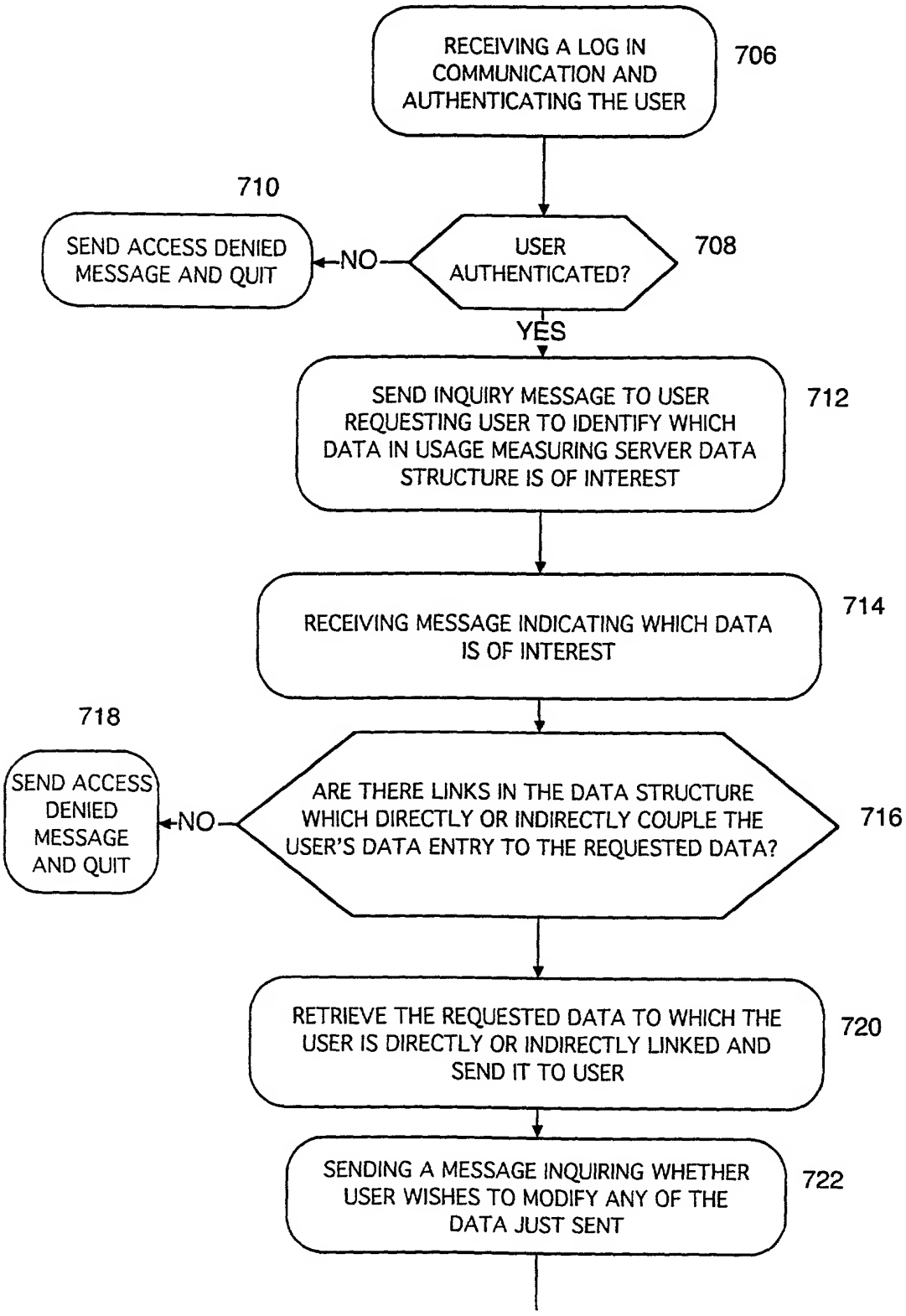


FIG. 24A

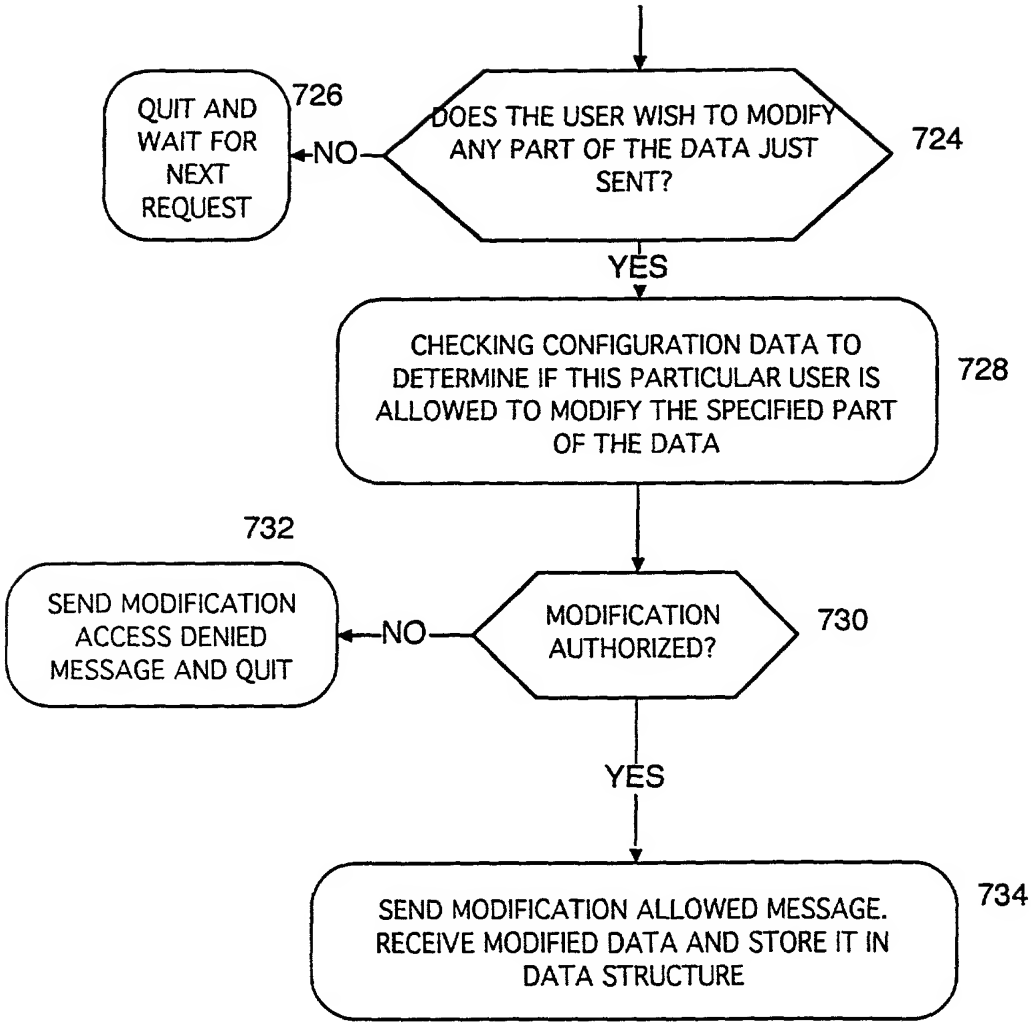


FIG. 24B

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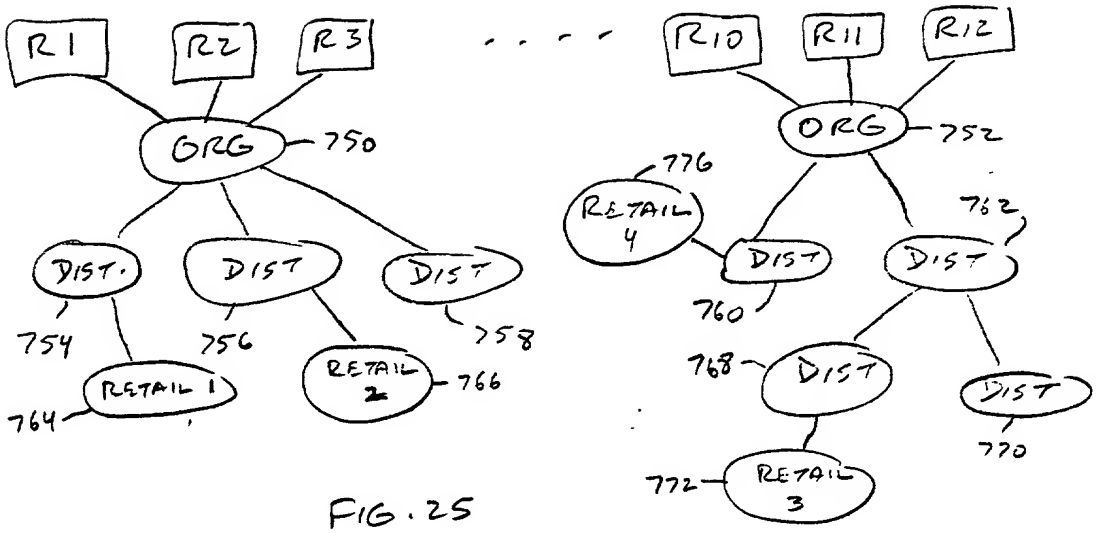
R1
R2
R3
R10
R11
R12
ORG
750
ORG
752
776
RETAIL 4
762
DIST.
DIST
DIST
DIST
DIST
754
756
758
760
RETAIL 1
RETAIL 2
766
768
DIST
DIST
764
770
772
RETAIL 3

FIG. 25

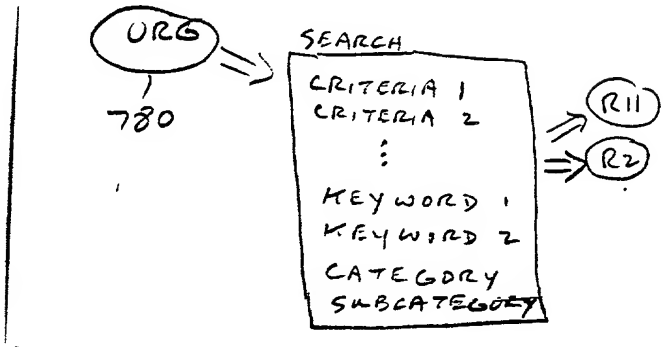
ORG
780
SEARCH
CRITERIA 1
CRITERIA 2
KEYWORD 1
KEYWORD 2
CATEGORY
SUBCATEGORY
R11
R2

FIG. 26

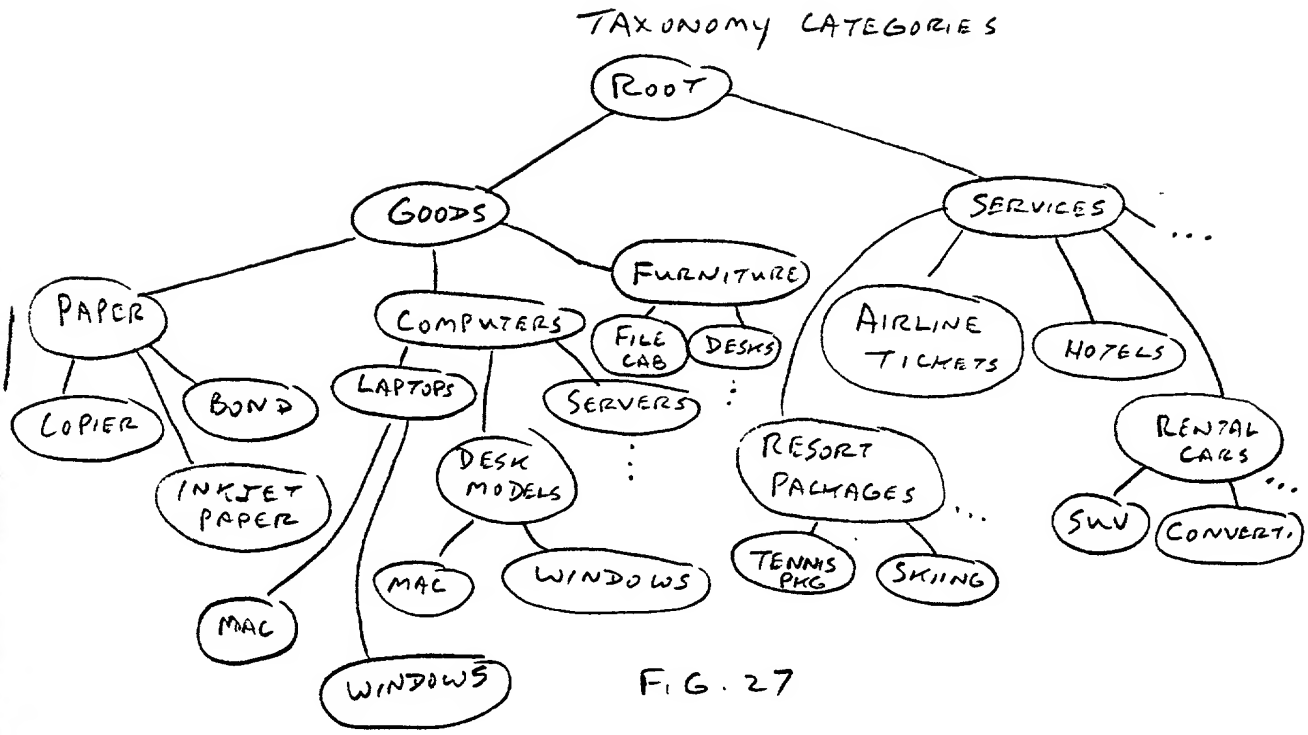
TAXONOMY CATEGORIES
ROOT
GOODS
SERVICES
...
PAPER
COMPUTERS
FURNITURE
AIRLINE TICKETS
HOTELS
COPIER
BOND
INKJET PAPER
LAPTOPS
DESK MODELS
SERVERS
FILE CAB
DESKS
RESORT PACKAGES
RENTAL CARS
SUV
CONVERT.
TENNIS PKG
SKIING
MAC
WINDOWS
MAC
WINDOWS

FIG. 27

SERVER PROCESSING TO IMPLEMENT ONE-STOP SHOPPING SEARCHING OF THE DATA STRUCTURE BASED UPON USER-DEFINED CRITERIA

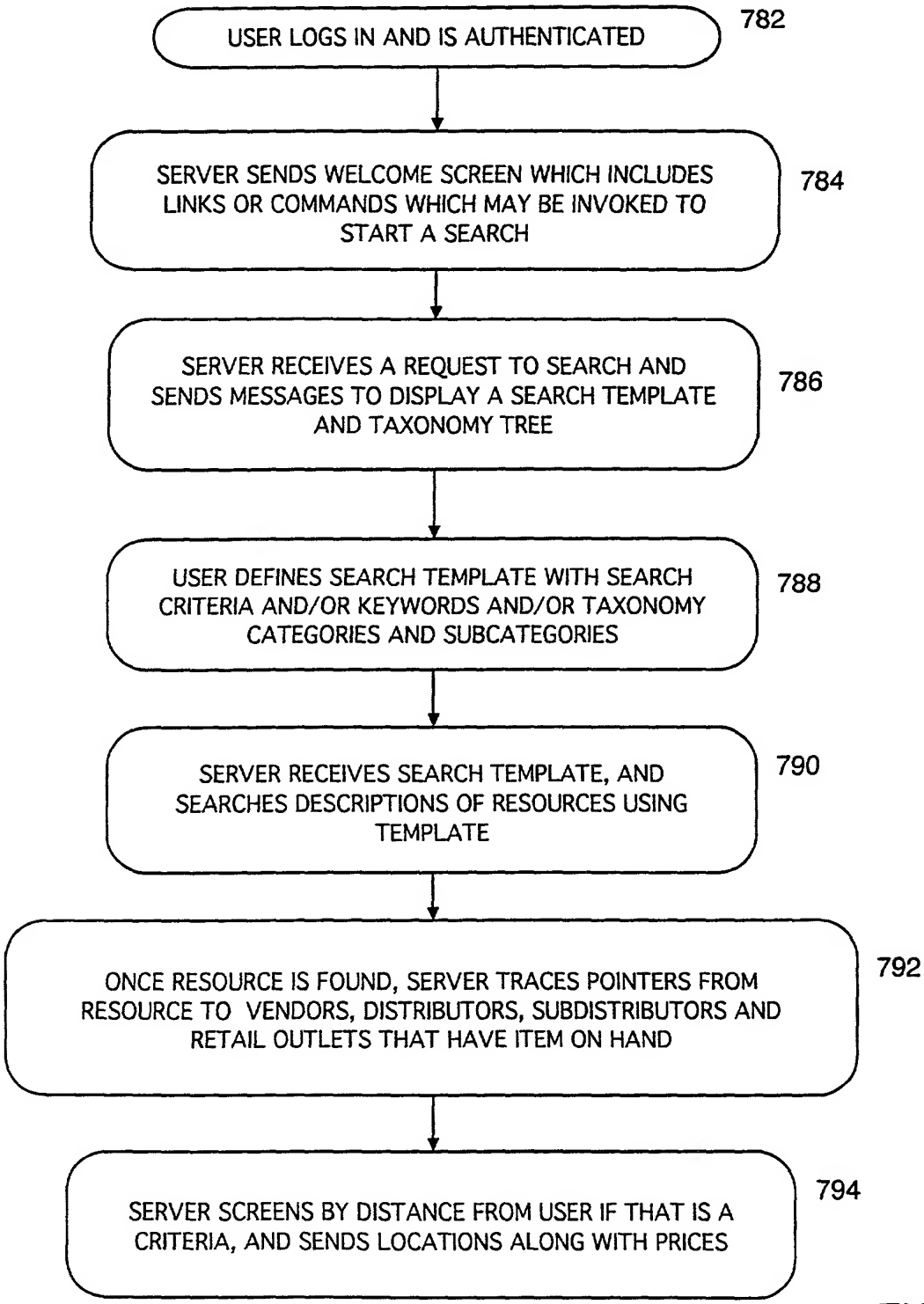

FIG. 28

EXHIBIT 2 - 5595074 - 10/05/04